

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of computing comprising:  
reading, by an execution engine, a data processing representation having code sections with code statements of at least a first and a second programming language;  
recognizing, by the execution engine, a first code section with at least code statements of a first programming language;  
invoking, by the execution engine, a first code statement processing unit of the first programming language to process the first code section;  
recognizing, by the execution engine, a second code section with at least code statements of a second programming language;  
invoking, by the execution engine, a second code statement processing unit of the second programming language to process the second code section.
2. (Previously Presented) The method of claim 1, wherein the first and second code sections are non-interleaved code sections.
3. (Original) The method of claim 1, wherein said second code section is embedded within said first code section.
4. (Currently Amended) The method of claim 1, wherein said first language is a directive language, and said second language is a selected one of XML and Javaan object-oriented language.
5. (Currently Amended) The method of claim 1, wherein said first language is Javaan object-oriented language, and said second language is XML.

6. (Previously Presented) The method of claim 1, wherein the method further comprises recognizing a third code section with at least code statements of a third programming language; and invoking a third code statement processing unit of the third programming language to process the third code section.
7. (Original) The method of claim 6, wherein said third code section is embedded within said second code section, and said second code section is embedded within said first code section.
8. (Currently Amended) The method of claim 6, wherein said first language is a directive language, said second language is ~~Java~~ an object-oriented language, and said third language is XML.
9. (Previously Presented) The method of claim 1, wherein the method further comprises recognizing an invocation of a library function within at least a selected one of said first and second code sections; and invoking the library function, and outputting the result of the invocation.
10. (Original) The method of claim 9, wherein the library function is a selected one of an emit function for outputting execution results, a pop function for returning an element, and a push function for backing up an insertion point.
11. (Original) The method of claim 1, wherein the method further comprises recognizing a header section of a selected one of the first and the second programming language; recognizing a directive statement within the header section, enumerating one or more data packages; and

importing the enumerated one or more data packages for use within code sections with at least statements of the selected first and second programming language.

12. (Original) The method of claim 1, wherein the method further comprises recognizing a header section of a selected one of the first and the second programming language;  
recognizing a declare statement within the header section, enumerating one or more processing methods; and  
instantiating the enumerated one or more processing methods for use within code sections with at least statements of the selected first and second programming language.
13. (Original) The method of claim 1, wherein the method further comprises recognizing a header section of a selected one of the first and the second programming language;  
recognizing a declare statement within the header section, enumerating one or more instance variables; and  
instantiating the enumerated one or more instance variables for use within code sections with at least statements of the selected first and second programming language.
14. (Currently Amended) A method of computing comprising:  
reading, by an execution engine, a data processing representation having code sections with code statements of at least a first and a second programming language, the execution engine adapted to recognize the code sections and, in response, invoke first and second code statement processing units to process to process the code sections;  
recognizing, by the execution engine, a header section of a selected one of the first and the second programming language;

- recognizing, by the execution engine, a directive statement within the header section, enumerating one or more data packages; and
- importing, by the execution engine, the enumerated one or more data packages for use by code sections within code sections with at least statements of the selected first and second programming language.
15. (Original) The method of claim 14, wherein the method further comprises recognizing a declare statement within the header section, enumerating one or more processing methods; and
- instantiating the enumerated one or more processing methods for use within code sections with at least statements of the selected first and second programming language.
16. (Original) The method of claim 14, wherein the method further comprises recognizing a declare statement within the header section, enumerating one or more instance variables; and
- instantiating the enumerated one or more instance variables for use within code sections with at least statements of the selected first and second programming language.
17. (Currently Amended) A method of computing comprising:
- reading, by an execution engine, a data processing representation having code sections with code statements of at least a first and a second programming language, the execution engine adapted to recognize the code sections and, in response, invoke first and second code statement processing units to process to process the code sections;
- recognizing, by the execution engine, a header section of a selected one of the first and the second programming language;
- recognizing, by the execution engine, a first declare statement within the header section, enumerating one or more processing methods; and

- instantiating, by the execution engine, the enumerated one or more processing methods for use within code sections with at least statements of the selected first and second programming language.
18. (Original) The method of claim 17, wherein the method further comprises recognizing a second declare statement within the header section, enumerating one or more instance variables; and  
instantiating the enumerated one or more instance variables for use within code sections with at least statements of the selected first and second programming language.
19. (Currently Amended) A method of computing comprising:  
reading, by an execution engine, a data processing representation having code sections with code statements of at least a first and a second programming language, the execution engine adapted to recognize the code sections and, in response, invoke first and second code statement processing units to process to process the code sections;  
recognizing, by the execution engine, a header section of a selected one of the first and the second programming language;  
recognizing, by the execution engine, a declare statement within the header section, enumerating one or more instance variables; and  
instantiating, by the execution engine, the enumerated one or more instance variables for use within code sections with at least statements of the selected first and second programming language.
20. (Currently Amended) An apparatus comprising:  
at least one storage unit having stored thereon programming instructions designed to instantiate an execution engine to enable the apparatus to  
read, by the execution engine, a data processing representation having code sections with code statements of at least a first and a second programming language,

recognize, by the execution engine, a first code section with code statements of at least the first programming language,  
invoking, by the execution engine, a first code statement processing unit of the first programming language to process the first code section,  
recognize, by the execution engine, a second code section with code statements of at least the second programming language,  
invoking, by the execution engine, a second code statement processing unit of the second programming language to process the second code section; and  
at least one processor coupled to said at least one storage unit to execute said programming instructions.

21. (Previously Presented) The apparatus of claim 20, wherein the first and second code sections are non-interleaved code sections.

22. (Original) The apparatus of claim 20, wherein said second code section is embedded within said first code section.

23. (Currently Amended) The apparatus of claim 20, wherein said first language is a directive language, and said second language is a selected one of XML and Javaan object-oriented language.

24. (Currently Amended) The apparatus of claim 20, wherein said first language is Javaan object-oriented language, and said second language is XML.

25. (Previously Presented) The apparatus of claim 20, wherein the programming instructions further enable the apparatus to  
recognize a third code section with at least code statements of a third programming language; and  
invoke a third code statement processing unit of the third programming language to process the third code section.

26. (Original) The apparatus of claim 25, wherein said third code section is embedded within said second code section, and said second code section is embedded within said first code section.

27. (Currently Amended) The apparatus of claim 25, wherein said first language is a directive language, said second language is Java-an object-oriented language, and said third language is XML.

28. (Previously Presented) The apparatus of claim 20, wherein said programming instructions further enable the apparatus to  
recognize an invocation of a library function of a selected one of the first and the second programming language within the first code section; and  
invoke the library function, and output the result of the invocation.

29. (Original) The apparatus of claim 28, wherein the library function is a selected one of an emit function for outputting execution results, a pop function for returning an element, and a push function for backing up an insertion point.

30. (Original) The apparatus of claim 20, wherein the said programming instructions are further designed to enable the apparatus to  
recognize a header section of a selected one of the first and the second programming language;  
recognize a directive statement within the header section, enumerating one or more data packages; and  
import the enumerated one or more data packages for use by code sections with at least code statements of the selected one of the first and the second programming language.

31. (Original) The apparatus of claim 20, wherein said programming instructions are further designed to enable the apparatus to
- recognize a header section of a selected one of the first and the second programming language;
  - recognize a declare statement within the header section, enumerating one or more processing methods; and
  - instantiate the enumerated one or more processing methods for use within code sections with at least code statements of the selected one of the first and the second programming language.
32. (Original) The apparatus of claim 20, wherein said programming instructions are further designed to enable the apparatus to
- recognize a header section of a selected one of the first and the second programming language;
  - recognize a declare statement within the header section, enumerating one or more instance variables; and
  - instantiate the enumerated one or more instance variables for use code sections with at least code statements of the selected one of the first and the second programming language.
33. (Currently Amended) An apparatus comprising:
- at least one storage medium having stored therein a plurality of programming instructions designed to instantiate an execution engine to enable the apparatus to
  - read, by the execution engine, a data processing representation having code sections with programming language statements of at least a first and a second programming language, wherein the execution engine is adapted to recognize the code sections and, in response, invoke first and second code statement processing units to process to process the code sections,



recognize, by the execution engine, a header section of a selected one of the first and the second programming language;  
recognizing, by the execution engine, a directive statement within the header section, enumerating one or more data packages, and  
import, by the execution engine, the enumerated one or more data packages for use code sections with at least code statements of the selected one of the first and the second programming language; and  
at least one processor coupled to the storage medium to execute the programming instructions.

34. (Original) The apparatus of claim 33, wherein said programming instructions are further designed to enable the apparatus to  
recognize a declare statement within the header section, enumerating one or more processing methods, and  
instantiate the enumerated one or more processing methods for use within code sections with at least code statements of the selected one of the first and the second programming language.

35. (Original) The apparatus of claim 33, wherein said programming instructions are further designed to enable the apparatus to  
recognize a declare statement within the header section, enumerating one or more instance variables, and  
instantiate the enumerated one or more instance variables for use within code sections with at least code statements of the selected one of the first and the second programming language.

36. (Currently Amended) An apparatus comprising:  
at least one storage medium having stored therein a plurality of programming instructions designed to instantiate an execution engine to enable the apparatus to

read, by the execution engine, a data processing representation having code sections with code statements of at least a first and a second programming language, wherein the execution engine is adapted to recognize the code sections and, in response, invoke first and second code statement processing units to process to process the code sections, recognize, by the execution engine, a header section of a selected one of the first and the second programming language, recognize, by the execution engine, a first declare statement within the header section, enumerating one or more processing methods, and instantiate, by the execution engine, the enumerated one or more processing methods for use within code sections with at least code statements of the selected one of the first and the second programming language; and at least one processor coupled to the storage medium to execute the programming instructions.

37. (Original) The apparatus of claim 36, wherein said programming instructions are further designed to enable the apparatus to recognize a second declare statement within the header section, enumerating one or more instance variables, and instantiate the enumerated one or more instance variables for use within code sections with at least code statements of the selected one of the first and the second programming language.

38. (Currently Amended) An apparatus comprising:  
at least one storage medium having stored therein a plurality of programming instructions designed to instantiate an execution engine to enable the apparatus to  
read, by the execution engine, a data processing representation having code sections with code statements of at least a first and a second programming language, wherein the execution engine is adapted to recognize the code sections and, in

response, invoke first and second code statement processing units to process to process the code sections,  
recognize, by the execution engine, a header section of a selected one of the first and the second programming language,  
recognize, by the execution engine, a declare statement within the header section, enumerating one or more instance variables,  
instantiate, by the execution engine, the enumerated one or more instance variables for use within code sections with at least code statements of the selected one of the first and the second programming language; and  
at least one processor coupled to the storage medium to execute the programming instructions.